

Abstract:

Method and apparatus by which digital data is communicated from a computer system to a display device. An analog video signal received from a computer system includes a predetermined data pattern. The analog video signal is sampled to detect the predetermined data pattern. The digital data is then recovered from the detected predetermined data pattern. The predetermined data pattern may occur a predetermined time interval after a horizontal sync pulse or may occur outside of a blanking interval. The display device may respond to the predetermined data pattern by commencing a set-up process, such as, adjusting a sampling rate for sampling the analog video signal; adjusting a sampling phase; or adjusting an orientation of a display image for the display device. Adjusting an orientation may comprise adjusting a sampling start time relative to a horizontal or vertical sync pulse. The predetermined data pattern may be representative of a parameter of the analog video signal, such as, resolution or frequency. The predetermined data pattern may be representative of a beginning of a horizontal blanking interval relative to a horizontal sync pulse for the analog video signal or representative of a beginning of a vertical blanking interval relative to a vertical sync pulse for the analog video signal. The predetermined data pattern may be utilized for adjusting a horizontal or vertical orientation of a display image for the display device.

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